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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION N
10/726,960	12/03/2003	James P. Beckham	FMED-26,553	4367
25883 75	590 10/05/2004		EXAMINER	
HOWISON & ARNOTT, L.L.P			THOMPSON, MICHAEL M	
P.O. BOX 741715 DALLAS, TX 75374-1715		-	ART UNIT	PAPER NUMBER
21.22.12, 111			3763	
			DATE MAILED: 10/05/2004	

Please find below and/or attached an Office communication concerning this application or proceeding.

	Application No.	Applicant(s)				
	10/726,960	BECKHAM, JAMES P.				
Office Action Summary	Examiner	Art Unit				
	Michael M. Thompson	3763				
The MAILING DATE of this communication app Period for Reply	ears on the cover sheet with the c	orrespondence address				
A SHORTENED STATUTORY PERIOD FOR REPLY THE MAILING DATE OF THIS COMMUNICATION.  - Extensions of time may be available under the provisions of 37 CFR 1.13 after SIX (6) MONTHS from the mailing date of this communication.  - If the period for reply specified above is less than thirty (30) days, a reply If NO period for reply is specified above, the maximum statutory period w.  - Failure to reply within the set or extended period for reply will, by statute, Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	66(a). In no event, however, may a reply be tin within the statutory minimum of thirty (30) day iill apply and will expire SIX (6) MONTHS from cause the application to become ABANDONE	nely filed s will be considered timely. the mailing date of this communication. D (35 U.S.C. § 133).				
Status						
1) Responsive to communication(s) filed on 12 Ju	i <u>ly 2004</u> .					
2a)⊠ This action is <b>FINAL</b> . 2b)☐ This	n)⊠ This action is <b>FINAL</b> . 2b)□ This action is non-final.					
3) Since this application is in condition for allowar						
closed in accordance with the practice under E	x parte Quayle, 1935 C.D. 11, 4	53 O.G. 213.				
Disposition of Claims						
4) ☐ Claim(s) 1-17 is/are pending in the application. 4a) Of the above claim(s) is/are withdray  5) ☐ Claim(s) is/are allowed.  6) ☐ Claim(s) 1-17 is/are rejected.  7) ☐ Claim(s) is/are objected to.  8) ☐ Claim(s) are subject to restriction and/or	vn from consideration.					
Application Papers						
9) The specification is objected to by the Examine	<b>r.</b> .					
10)☐ The drawing(s) filed on is/are: a)☐ acc						
Applicant may not request that any objection to the						
Replacement drawing sheet(s) including the correct 11) The oath or declaration is objected to by the Ex						
Priority under 35 U.S.C. § 119						
12) Acknowledgment is made of a claim for foreign a) All b) Some * c) None of:  1. Certified copies of the priority documents 2. Certified copies of the priority documents 3. Copies of the certified copies of the priority application from the International Bureau * See the attached detailed Office action for a list	s have been received. s have been received in Applicat rity documents have been receiv u (PCT Rule 17.2(a)).	ion No ed in this National Stage				
Attachment(s)						
1) Notice of References Cited (PTO-892)	4) Interview Summary					
Notice of Draftsperson's Patent Drawing Review (PTO-948)     Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08)     Paper No(s)/Mail Date	Paper No(s)/Mail D 5)  Notice of Informal I 6)  Other:	ate Patent Application (PTO-152)				

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### DETAILED ACTION

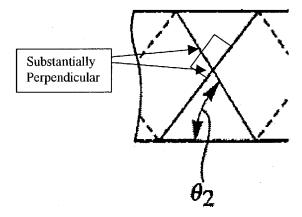
## Claim Rejections - 35 USC § 103

- 1. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
  - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- Claims 1-17 are rejected under 35 U.S.C. 103(a) as being unpatentable over Ruiz 2. (5,868,779) in view of Jorgensen. Ruiz teaches all of the limitations of the claims such as the teaching or PET as non-compliant material suitable for use except for multiple fiber/polymeric outer walls. Jorgensen teaches multiple fiber/polymeric outer walls that form an angle to one other for providing a lower compliance composite balloon device. It would have been obvious to one or ordinary skill in the art, at the time of invention to have modified the reinforced portion of Ruiz with the reinforced portion of Jorgensen to increase the number of outer fiber/polymeric walls as taught by Jorgensen and for the purpose of lowering compliance since it is well known that the more layers of non-compliant outer walls or mesh that are added serves to reduce compliance of the balloon structure. Furthermore, the Examiner maintains that the method of Jorgensen teaching a layering of outer walls/mesh is analogous to exchanging mesh of different compliance thereby providing additional motivation for their use in the medical art of balloon catheters and the selection of any of these known equivalents to create a reinforced medical device would be within the level of ordinary skill in the art at the time of invention. Furthermore, with respect to Applicant's fiber layer materials it is the Examiner's position that

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Jorgenson teaches polyethylene that meets Applicant's description of inelastic fibers. As shown below it is also the Examiner's position that the fiber layers are "substantially" at a right angle and they are "about" at an angle of 10 degrees.



In addressing the first fibers being equal in length to the long axis of the balloon, the Examiner submits that even though the fibers are helically wound, they are substantially the length of the long axis in that they do not appear to extend past the ends of the balloon section and run substantially the longitudinal length albeit in a helical fashion.

Furthermore, it is the Examiner's position that at the time the invention was made, it would have been an obvious matter of design choice to a person of ordinary skill in the art to have provided fibers having a thickness of about 0.0005 inch and a second fiber layer wind density of 50 wraps per inch because Applicant has not disclosed that having fiber a thickness of about 0.0005 inch and a second fiber layer wind density of 50 wraps per inch provides an advantage, is used for a particular purpose, or solves a stated problem. One of ordinary skill in the art, furthermore, would have expected Applicant's invention to perform equally well with a fiber thickness of 0.0010 or a second fiber layer wind density of 60 or 40 wraps per inch because

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both the fiber thickness and wind density perform the same function of providing similar non-compliant characteristics of preventing over inflation and elastic characteristic phenomenon and would have functioned equally well. Therefore, it would have been an obvious matter of design choice to modify Ruiz in view of Jorgensen to obtain the invention as specified.

## Response to Arguments

Applicant's arguments filed 07/12/2004 have been fully considered but they are not persuasive. Applicant asserts that the prior art of record has failed to teach the interior surface of the non-compliant medical balloon remains substantially unchanged when the balloon changes from a deflated to inflated state. It is the Examiner's position that the prior art teaches a non-compliant balloon device with a interior surface that remains *substantially* unchanged when inflated and deflated due to the non-compliant structure affixed to the balloon. Applicant has not claimed a non-compliant material as the balloon material. Applicant has generally stated a non-compliant medical balloon. It is submitted that in total the prior art balloons are non-compliant. In conclusion, it is understood that Applicant has fully responded to all rejections and raised all errors with respect to the Examiner's rejection and since there is no further traversal beyond the above-mentioned issues it appears that Applicant has acquiesced to all other rejections of record and the instant Office Action has been made Final.

#### Conclusion

3. THIS ACTION IS MADE FINAL. Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

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A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the mailing date of this final action.

#### Contacts

Any inquiry concerning this communication or earlier communications from the Examiner should be directed to Michael Thompson whose telephone number is (703) 305-1619. The Examiner can normally be reached on Monday through Friday from 9 am to 5 PM.

If attempts to reach the Examiner by telephone are unsuccessful, the Examiner's Supervisor, Nick Lucchesi, can be reached on (703) 308-2698. The official fax phone number for all submissions to the organization where this application or proceeding is assigned is (703) 872-9306.

Michael M. Thompson

Patent Examiner

MT

October 1, 2004

COAN H. THANH
PRIMARY EXAMINER